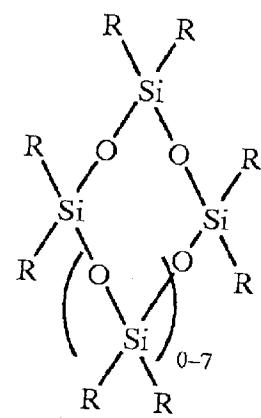


Claims

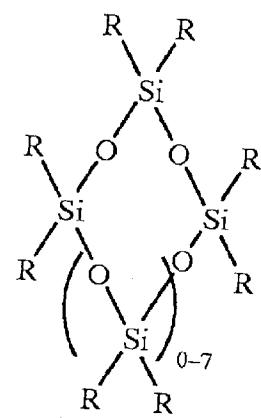
- [c1] 1. A polycarbonate composition comprising:
 - (a) polycarbonate produced in a base-catalyzed melt polymerization reaction to which an acidic quencher has been added in a 1 to 30-fold molar ratio with respect to the amount of initial basic catalyst; and
 - (b) a flame-retardant component comprising a potassium perfluoralkane sulfonate and a cyclic siloxane, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 2 mm and has a haze of no more than 1%.
- [c2] 2. The composition of claim 1, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is a sodium salt.
- [c3] 3. The composition of claim 2, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.
- [c4] 4. The composition of claim 3, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon

atoms.

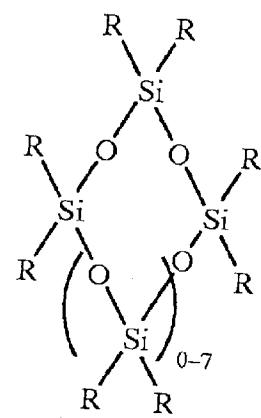
- [c5] 5. The composition of claim 4, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.
- [c6] 6. The composition according to claim 5, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c7] 7. The composition according to claim 5, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.
- [c8] 8. The composition according to claim 4, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c9] 9. The composition according to claim 4, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.
- [c10] 10. The composition of claim 2, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon

atoms.

- [c11] 11. The composition of claim 10, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.
- [c12] 12. The composition according to claim 11, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c13] 13. The composition according to claim 11, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.
- [c14] 14. The composition according to claim 10, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c15] 15. The composition according to claim 10, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.
- [c16] 16. The composition of claim 2, wherein the base catalyst employed in the base-catalyzed melt polymerization reaction is sodium hydroxide.
- [c17] 17. The composition of claim 16, wherein components (a) and (b) work in combination such that the composition achieves a V0 UL flammability rating at a thickness of 1.6 mm.
- [c18] 18. The composition of claim 17, wherein the cyclic siloxane has the



wherein R is independently selected from the group consisting of C₁ to C₃₆ alkyl, fluorinated or perfluorinated C₁ to C₃₆ alkyl, C₁ to C₃₆ alkoxy, C₆ to C₁₄ aryl, aryloxy of 6 to 14 carbon atoms, arylalkoxy of 7 to 36 carbon atoms, and C₁ to C₃₆ alkyl-substituted aryl of 6 to 14 carbon

atoms.

- [c19] 19. The composition of claim 18, wherein the potassium perfluoroalkane sulfonate is potassium perfluorobutane sulfonate.
- [c20] 20. The composition according to claim 19, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c21] 21. The composition according to claim 19, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.
- [c22] 22. The composition according to claim 18, wherein the acidic quencher is butyl tosylate at a level of 1 to 10 ppm.
- [c23] 23. The composition according to claim 18, wherein the acidic quencher is phosphorous acid at a molar ratio of 1 to 15 with respect to the initial base catalyst.